

1S20 THRU 1S60

SCHOTTKY BARRIER RECTIFIER

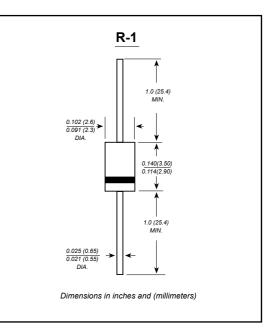
Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375″ (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: R-1 molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.007 ounce, 0.20 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	1S20	1S30	1S40	1S50	1S60	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current					1	
See Fig. 1		1.0				
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method))	30				
Maximum Instantaneous Forward Voltage at 1.0A		0.55 0.7		70	V	
Maximum DC Reverse Current Ta=25°C		1.0				
at Rated DC Blocking Voltage Ta=100°C		10				
Typical Junction Capacitance (Note1)		110			80	
Typical Thermal Resistance R0JA (Note 2)		10			15	
Operating Temperature Range TJ		-65 to +125			-65 to +150	
Storage Temperature Range Tsrs		-65 to +150				

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NOTES:

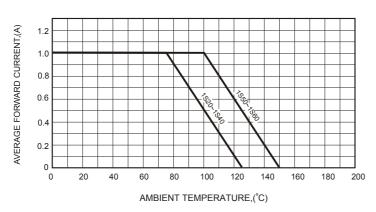
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

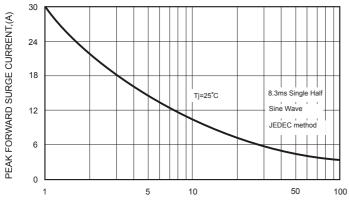


1S20 THRU 1S60 RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE







NUMBER OF CYCLES AT 60Hz

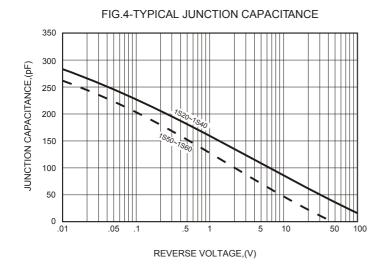


FIG.2-TYPICAL FORWARD

